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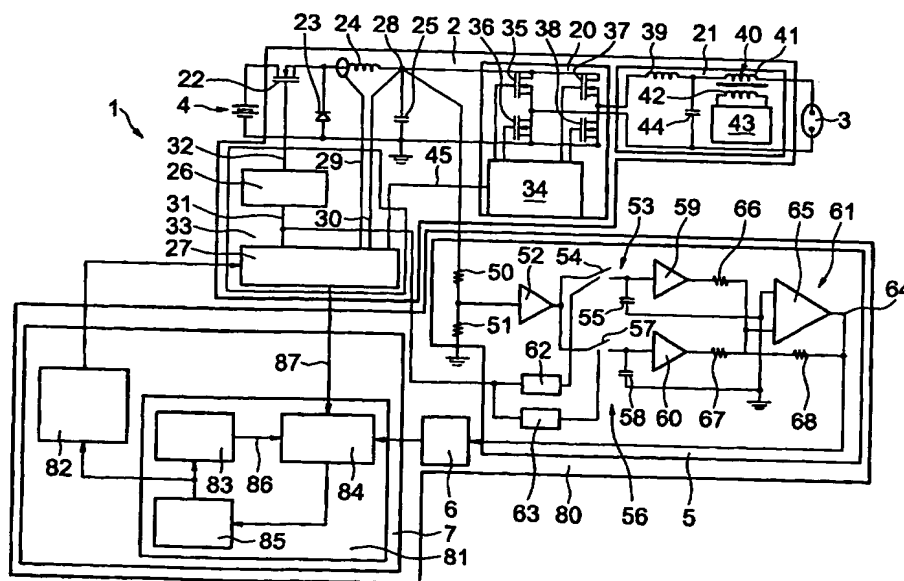
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(54) Title: **CIRCUIT AND METHOD FOR OPERATION OF A GAS DISCHARGE LAMP**



(57) Abstract: The invention relates to a circuit (1) and a method for operation of a gas discharge lamp (3) with a switching trans-
former (2), which switching transformer comprises a switch (22), a converter inductor (24) and a control means (27) in a control
loop (33) for measuring a lamp voltage and setting a desired power. In accordance with the invention, the switching transformer
(2) comprises a second control loop (80). By means of the second control loop the switching transformer is adjustable to individual
lamp conditions.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

In **onal Application No**
PCT/IB2004/050770

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H05B41/292

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 4 437 043 A (PITEL IRA J) 13 March 1984 (1984-03-13) column 1, line 63 - column 2, line 16; figures 1-3 column 3, lines 3-45 column 4, line 36 - line 37 column 7, line 5 - line 33	1, 2, 11-13, 17 3-7, 14-16, 18, 19
X	EP 0 596 740 A (GEN ELECTRIC) 11 May 1994 (1994-05-11) column 7, line 8 - column 8, line 5; figures 3a-c, 4a column 10, line 29 - column 11, line 45 ----- -/--	1, 11-13, 17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

17 September 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 87/07995 A (INNOVATIVE CONTROLS INC) 30 December 1987 (1987-12-30) page 3, line 6 - page 13, line 5; figures 1,2a	11-13
A	EP 0 477 587 A (MATSUSHITA ELECTRIC IND CO LTD) 1 April 1992 (1992-04-01) the whole document	1-7, 11-19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/050770

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7, 11-19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,11-19

A circuit for operation of a gas discharge lamp

2. claims: 8-10

A measuring filter

INTERNATIONAL SEARCH REPORT

In: nal Application No
PCT/IB2004/050770

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